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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,264	10/715,264 11/17/2003		Nathan R. Brown	2269-4375.3US (99-1029.03	5086
24247	7590	05/06/2004	EXAMINER		INER
TRASK BRITT P.O. BOX 2550 SALT LAKE CITY, UT 84110				MACARTHUR, SYLVIA	
				ART UNIT	PAPER NUMBER
	,			1763	

DATE MAILED: 05/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

-1	Application No.	Applicant(s)					
	10/715,264	BROWN, NATHAN R.					
Office Action Summary	Examiner	Art Unit					
	Sylvia R MacArthur	1763					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>04 M</u>	arch 2004.						
	action is non-final.						
·=							
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-12 is/are pending in the application.	Claim(s) <u>1-12</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-12</u> is/are rejected.							
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>17 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage					
	or the certified copies hot receive	u.					
Attachment(s)	A) The Interview Commence	(DTO 413)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/17/2003.	5) Notice of Informal P. 6) Other:	atent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al (USP 6,315,634).

Regarding claims 1 and 2:

Jensen et al teaches a method of optimizing CMP process. Figure 5 illustrates the steps of polishing a first wafer determining a polishing result (by analyzing its topography), generating a force gradient, applying a force gradient to the backside of the second wafer and polishing the second wafer based on the previously determined force gradient. Col. 5 lines 1-20 teaches that the polishing parameter is the polishing pressure The polishing result that is analyzed includes the topography as whether the polishing is uniform or there is a presence of defects is determined.

Regarding claim 3: Col. 5 lines 29-41 discusses the metrology technique.

Regarding claim 4: Col. 5 lines 43-60 discussed how the processing result can analyze the rate of material removal and the surface characteristics which includes the height of raised area of active surface.

Regarding claims 5-12: Jensen illustrates in Fig. 5 that the wafer is polished, a polishing result is determined, the wafer is polished again using a second set of

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parameters. Based on the analysis of the two polishing results the optimized polishing parameters (including pressure which is a ratio of force and area) is determined and a second wafer is polished.

Col. 5 lines 29-41 discusses the metrology technique.

Col. 5 lines 43-60 discussed how the processing result comprises analyzing the rate of material removal and the surface characteristics, which includes the height of raised area of active surface.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R MacArthur whose telephone number is 571-272-1438. The examiner can normally be reached on M-F during the core hours of 8 a.m. and 2 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Mills can be reached on 703-308-1633. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sylvia R MacArthur Patent Examiner Art Unit 1763

Silvarllactur May 4, 2004